



A BUILDING
WHOSE TIME
HAS COME



Zeeland West High School
3390 100th Avenue
Zeeland, MI 49464
616-748-4500

Designed and Built by:

GMB
GMB Architects • Engineers
85 E. 8th Street, Suite 200
Holland, MI 49423-2921


Lakewood Inc.
11253 James Street
Holland, MI 49424



THE PAST

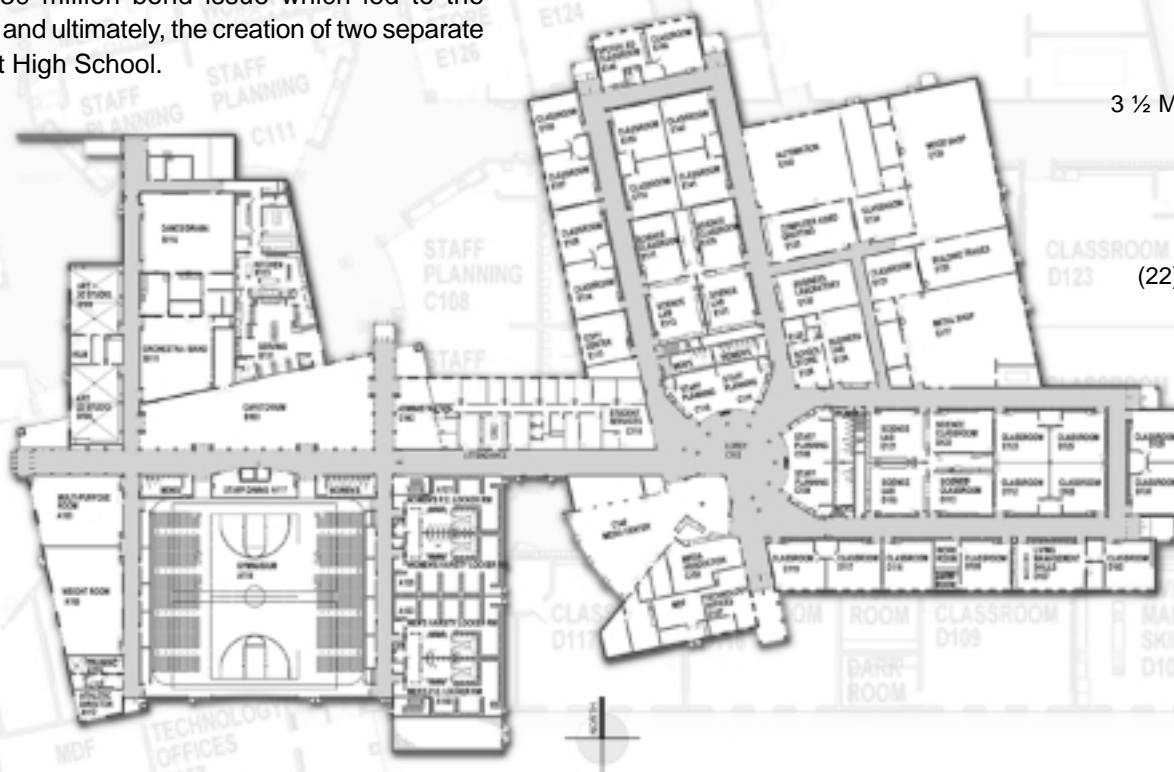
Faced with dramatic student growth, voters in 1994 approved a \$28.9 million bond issue which led to the construction of a new high school. The new high school was completed by the Fall of 1996 and became home to nearly 1,000 students in Grades 10-12. While 9th grade students remained at Cityside Middle School on Main Street, there was a recognition that within a few short years, growth in the middle school population would require the construction of additional facilities for high school students.

By 1998, community members were actively discussing the best method to provide suitable facilities for all of the nearly 1,500 high school students. Through a series of forums, the community developed a plan for the construction of another high school, to be located on property adjacent to the existing high school. Important issues for the community members were creating a high school where students would know one another, know their teachers and their principal as well as have an opportunity to actively participate in extra-curricular activities. In a nutshell, community members wanted a smaller school feel without sacrificing programs available in a larger high school.

In June of 1999, voters approved a \$39 million bond issue which led to the construction of Zeeland West High School and ultimately, the creation of two separate high schools. Welcome to Zeeland West High School.



BUILDING FACTS



SITE

40 Acres
Total Campus - 80 Acres
3 ½ Minute Walk Between High Schools

BUILDING

1999 Bond Issue - \$19 Million
828-Student Population
173,500 Total Square Feet

ACADEMICS

(22) Multi-use Learning Environments
(4) Science Classrooms with Labs
(2) Business Labs
Media Center with Computer Lab
Media Production Lab
(5) Technology Education Suites

ATHLETICS

Gymnasium seating for 1,450
Upper Level Jogging Track
(4) Locker Rooms
Multi-Purpose Room
Fitness Center

ARTS

2-D & 3-D Art Classrooms
Performing Arts Room
Orchestra Room

FOOD SERVICE

350-Seat Cafetorium
Five-Station Scramble Servery

UNIQUE FEATURES



A 10,000 WATT WIND TURBINE will generate electricity with no fuel or pollution. Monitoring systems allow the students to study the performance of this system as well. A portion of this system was funded by a grant from the Zeeland Board of Public Works.



A DAYLIGHT HARVESTING CONTROL SYSTEM automatically turns some of the lights off in the building when the sunlight coming in through the windows is sufficient.



A GEOTHERMAL HEAT PUMP SYSTEM eliminates the traditional boiler and uses solar energy stored in the earth to heat and cool the building. There are 20 miles of pipe buried up to 400 feet deep in the soil to allow this heat transfer to occur. Even the waste heat from the refrigerators and freezers in the Kitchen is used to heat the building!



HIGH EFFICIENCY LIGHTING DESIGN reduces the air conditioning load and the electrical consumption while reducing glare. The Gym lighting system uses 40% less energy than a typical lighting system.

ENERGY REDUCTION FEATURES include additional insulation and a reflective roof to reduce heating and cooling loads for this building. A special Low Emissivity paint reduces heat loss in the classrooms and makes them more comfortable. Individual high efficiency heat pumps and thermostatic controls in each classroom maximize comfort.



A 1,000 WATT SOLAR PHOTOVOLTAIC SYSTEM has been installed that will convert sunlight directly into electricity with no pollution. Students will be able to monitor system performance via the Internet.



ENERGY RECOVERY SYSTEMS capture energy that is typically lost when air is exhausted from the building. This reduces the energy needed to cool or heat the ventilation air from the outside by 75-90%.



OCCUPANCY SENSORS located throughout the building ensure that lights are turned off in spaces that are unoccupied.



A HIGH PERFORMANCE SCHOOL FOR HIGH PERFORMANCE STUDENTS

THE FUTURE

Both Zeeland East and Zeeland West High Schools were designed with equity as an important criteria, while still promoting the uniqueness of each facility. Zeeland East was designed with an emphasis on the Arts and Zeeland West with a focus on Technology. These differences create a great complimentary relationship between these two schools which share the same campus. The development of an aesthetic site connection promotes a sense of community between the two schools and enhances the sharing of program elements unique to each building. As the doors opened to both high schools in the Fall of 2002, enrollment was nearly 1,550. A full transition to separate high school programs is in process and is scheduled to be complete by the start of the 2005-06 school year. In anticipation of this directive, each school was designed to allow for additional classrooms and auxiliary spaces. Keeping an eye on enrollment and educational programs, the Board of Education will consider the potential for future additions to these fine school facilities.

